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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,367	04/19/2001	Frederic Bauchot	FR920000029US1	9246

7590

06/03/2004

David A. Mims, Jr.
IBM Corporation, Intellectual Property Law Dept.
11400 Burnet Road-Internal Zip 4054
Austin, TX 78758

EXAMINER

NGUYEN BA, PAUL H

ART UNIT	PAPER NUMBER
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2176

DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/838,367

Applicant(s)

BAUCHOT ET AL.

Examiner

Paul Nguyen-Ba

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 September 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>09/24/02</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Notice to Applicant

1. This action is responsive to Information Disclosure Statement (IDS) filed on September 24, 2002.
2. Claims 1-9 have been considered. Claim 1 is an independent claim.

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Greif et al. ("Greif"), U.S. Patent No. 5,371,675.

Independent Claim 1

Greif teaches a method of *applying one or a plurality of options in one or a plurality of cells in a multi dimensional spreadsheet comprising a plurality of cells identified by a cell address along each dimension* (see Abstract), said method comprising the steps of:

defining for each option a boolean variable with a first value and a second value, preferably a "true" or "false" value (col. 29, lines 47-67 *et seq.* → object manager implements client callback functions which return a boolean value: "true" or "false");

for each of said one or plurality of cells:

referencing one or a plurality of boolean variables (col. 29, lines 47-67 *et seq.* → the list of boolean function argument references include: scenarios in a workfile, alternatives in a range, alternatives in a scenario, formulas in a workfile, etc.);

associating a logical or mathematical operation with each boolean variable (col. 1, lines 26-60 → callback type "formulas in a workfile" is associated with any combination of mathematical operations from simple arithmetic);

for each of said one or plurality of referenced boolean variables in each of said one or plurality of cells:

specifying a default value, said default value being defined as the value of the cell when the referenced boolean variable is set to the first value, preferably when the boolean variable is set to the "false" value (col. 30, lines 23-39, 62-67 → Default settings are maintained in the setting Storage Manager; i.e. "sticky" values. With a "false" boolean value, there is no need to iterate over Alternative objects);

specifying a delta value by applying to the specified cell default value, the operation associated with the referenced boolean variable when the boolean variable is set to the second value, preferably when the boolean variable is set to the "true" value (col. 2, lines 25-56 → Each Alternative of the plurality of Alternatives contain a corresponding set of user entered data that is different from the first set of user entered data. The user can further designate a subset of the plurality of alternatives to form a scenario ("what-if" analysis), enabling the user to select and deselect the scenario as the source of data that is used in the spreadsheet);

setting each boolean variable to the first value or to the second value (col. 5, lines 15 et seq. → variable is either set to default value or Alternative values);

for each of said one or plurality of cells:

computing said one or plurality of delta values (col. 8, lines 25-43; see Fig. 5).

Claim 2

Greif teaches the method according to claim 1 wherein the step of computing said one or plurality of delta values comprises the further step of:

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computing the value of the cell from said one or plurality of computed delta values (col. 8, lines 25-43; see Fig. 5).

Claim 3

Greif teaches the method according to claim 1 wherein said step of associating a logical or mathematical operation with each boolean variable, comprises the preliminary step of:

specifying either an additive, or a multiplicative or an exclusive operation (col. 1, lines 26-60 → i.e. "formulas in a workfile").

Claim 4

Greif teaches the method according to claim wherein said step of specifying a delta value comprises the further step of:

defining the delta value as either an additive increment, or a multiplicative factor or an alternate value applied to the specified cell default value when the boolean variable is set to the first value preferably when the boolean variable is set to the "true" value (col. 1, lines 26-60; col. 2, lines 25-56; col. 19, lines 14-21 → when the Boolean variable is set to "true" value, the Alternative values can be evaluated using any user-defined formulas, including addition and multiplication);

Claim 5

Greif teaches the method according to claim 1 comprising the further step of:

for each of said one or plurality of referenced boolean variables in each of said one or plurality of cells:

specifying whether the boolean variable is referenced in the cell by an absolute reference or not, so that any copy-paste operation performed on the cell results in a cell where the same

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boolean variable is referenced (col. 6, line 1-13 → an Alternative saves all cell data in a range, so that the same boolean variable is referenced).

Claims 6 and 7

Greif teaches the method according to claim 1 wherein said steps of defining one or a plurality of boolean variables, associating a logical or mathematical operation with each boolean variable, setting each boolean variable to the first value or to the second value are executed by means of an *interactive user interface comprising a dialog box, displayed on a screen of a computer system* (see Figs 2-6, and 10).

Claim 8

Greif teaches a system comprising means adapted for method according to claim carrying out the method according to claim 7 (col. 4, lines 47-61).

Claim 9

Greif teaches a *computer program comprising computer readable instructions* adapted for carrying out the method according to claim 1 (see Title; Abstract; Claim 1 as discussed above → “programmed computer,” including instructions).

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 20010044798 A1	US-PGPUB	20011122	Nagral, Ajit S. et al.
US 6477439 B1	USPAT	20021105	Bernaden, III, Alex et al.
US 6260044 B1	USPAT	20010710	Nagral, Ajit S. et al.
US 5721847 A	USPAT	19980224	Johnson, Jeffrey J.
US 5055998 A	USPAT	19911008	Wright, Terrence et al.
US 6104325 A	USPAT	20000815	Liaw, Weikuo et al.
US 5883623 A	USPAT	19990316	Cseri, Istvan
US 5623591 A	USPAT	19970422	Cseri, Istvan
US 5603021 A	USPAT	19970211	Spencer, Percy L. et al.
US 6634019 B1	USPAT	20031014	Rice, Todd M. et al.
US 6438565 B1	USPAT	20020820	Ammirato, Joseph Michael et al.
US 5499180 A	USPAT	19960312	Ammirato, Joseph M. et al.

Bruce Hallberg et al., *Special Edition Using Microsoft Excel 97* 440-449, Que®

Corporation (Best Seller Ed. 1997).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Nguyen-Ba whose telephone number is (703) 305-8776.


The examiner can normally be reached from 10 am - 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (703) 305-9792. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PNB


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER